

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P934935

Luminaire Tested: SQ4-FA-075U-125D-92765-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934935
REPORT IS A COMBINATION OF REPORTS P933718 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-125D-92765-1D-UNV-STD-W-4-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

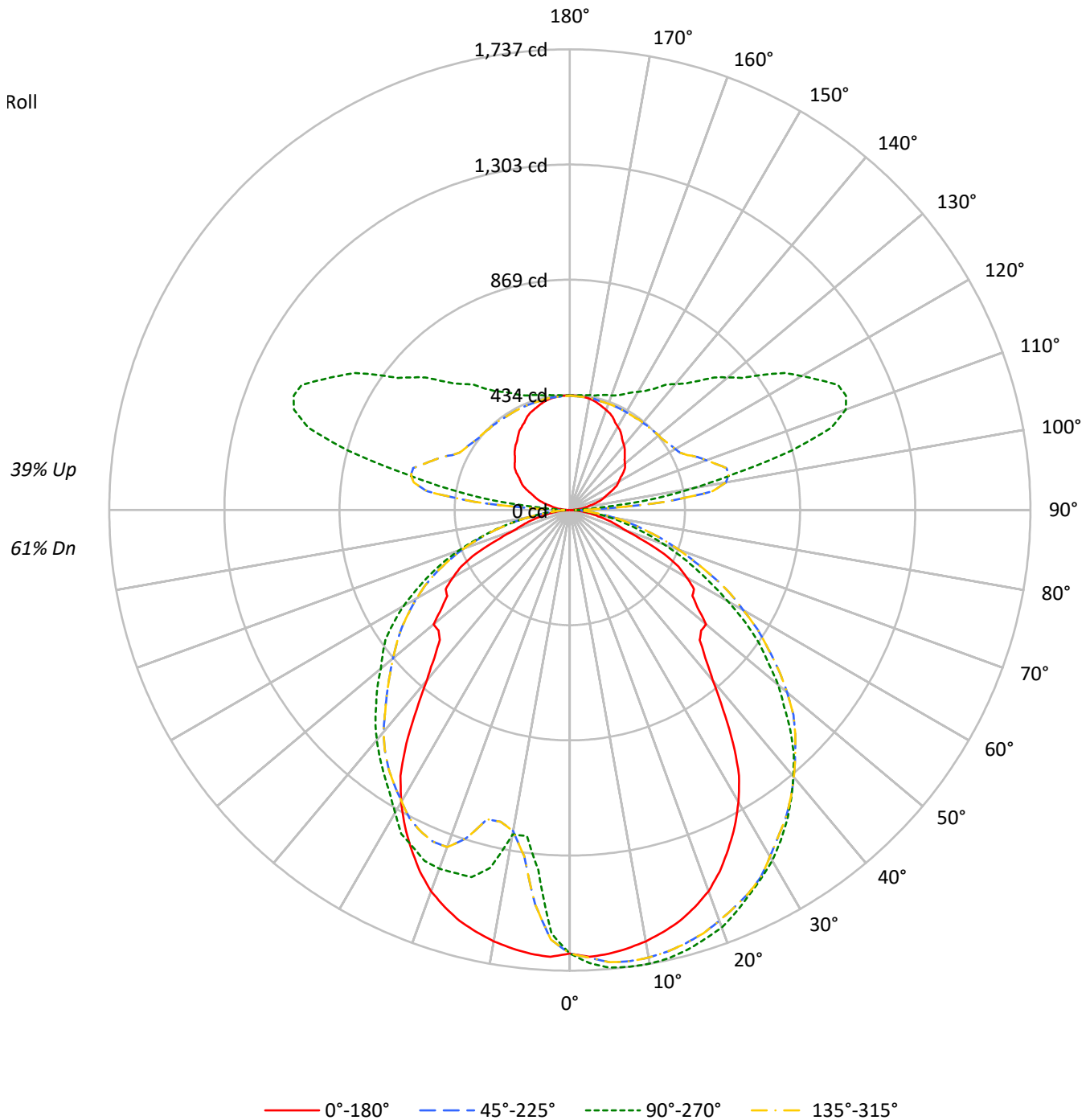
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7135.5 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10		0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	66	66	61
1	100	96	92	88	94	90	86	83	79	76	74	68	66	65	59	57	56	56	56	51
2	91	84	78	72	85	79	73	68	69	65	61	60	57	54	52	49	47	47	47	43
3	83	74	66	60	78	69	63	57	61	56	51	53	49	46	46	43	40	40	40	36
4	76	65	57	51	71	61	54	49	54	48	44	47	43	39	41	37	35	35	35	31
5	70	58	50	44	65	55	47	42	48	42	38	42	38	34	37	33	30	30	30	27
6	65	52	44	38	60	49	42	36	44	37	33	38	33	30	33	29	26	26	26	24
7	60	47	39	33	56	45	37	32	39	33	29	35	30	26	30	26	23	23	23	21
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21	21	21	19
9	52	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19	19	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	24	20	17	17	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15515	15515	15515	15515
5°	15614	15661	15614	12315
10°	15492	15428	15492	11030
15°	15306	15093	15306	12603
20°	14968	14698	14968	12629
25°	14295	14119	14295	12362
30°	13433	13640	13433	11775
35°	11958	13034	11958	11128
40°	9946	12319	9946	10641
45°	8870	11484	8870	10079
50°	9402	10487	9402	9516
55°	8821	9413	8821	9191
60°	9060	7995	9060	8418
65°	8175	6609	8175	7388
70°	5621	5268	5621	6193
75°	4876	3894	4876	4662
80°	3852	2575	3852	2802
85°	2095	1364	2095	1157

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13620 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.9	2.1
10°-20°	428.5	6.0
20°-30°	662.4	9.3
30°-40°	790.8	11.1
40°-50°	795.4	11.1
50°-60°	692.1	9.7
60°-70°	490.7	6.9
70°-80°	259.6	3.6
80°-90°	66.3	0.9
90°-100°	210.4	2.9
100°-110°	553.3	7.8
110°-120°	573.7	8.0
120°-130°	460.2	6.4
130°-140°	361.1	5.1
140°-150°	277.1	3.9
150°-160°	199.6	2.8
160°-170°	122.1	1.7
170°-180°	41.3	0.6
0°-30°	1241.9	17.4
0°-40°	2032.6	28.5
0°-60°	3520.2	49.3
0°-90°	4336.8	60.8
90°-120°	1337.4	18.7
90°-150°	2435.8	34.1
90°-180°	2799.0	39.2
0°-180°	7135.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1672	1672	1672	1672	1672	
5°	1680	1732	1680	1362	1680	159
15°	1604	1716	1604	1433	1604	451
25°	1412	1601	1412	1402	1412	649
35°	1074	1428	1074	1220	1074	664
45°	693	1177	693	1033	693	555
55°	565	868	565	848	565	519
65°	392	524	392	585	392	375
75°	149	248	149	297	149	156
85°	25	63	25	54	25	34
90°	3	11	3	11	3	3
95°	28	127	28	127	28	31
105°	100	866	100	866	100	106
115°	177	1116	177	1116	177	175
125°	246	888	246	888	246	219
135°	294	689	294	689	294	227
145°	340	559	340	559	340	213
155°	385	482	385	482	385	177
165°	415	449	415	449	415	117
175°	432	435	432	435	432	41
180°	432	432	432	432	432	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0
2.5°	1686.2	1686.2	1695.7	1698.9	1698.9	1694.2	1689.4	1694.2	1708.4	1713.1	1711.5
5°	1679.9	1692.6	1710.0	1713.1	1716.3	1714.7	1711.5	1714.7	1730.5	1733.7	1735.3
7.5°	1667.2	1691.0	1713.1	1717.9	1722.6	1717.9	1716.3	1719.5	1735.3	1738.5	1738.5
10°	1651.4	1684.6	1710.0	1713.1	1717.9	1713.1	1713.1	1719.5	1735.3	1738.5	1740.0
12.5°	1629.3	1675.2	1698.9	1702.0	1708.4	1706.8	1705.2	1711.5	1727.3	1730.5	1730.5
15°	1604.0	1657.8	1679.9	1683.0	1694.2	1691.0	1691.0	1697.3	1714.7	1719.5	1717.9
17.5°	1569.2	1635.6	1660.9	1665.6	1673.6	1672.0	1673.6	1679.9	1695.7	1698.9	1700.4
20°	1529.6	1605.5	1635.6	1640.3	1648.3	1648.3	1648.3	1656.2	1672.0	1678.4	1678.4
22.5°	1475.8	1574.0	1605.5	1608.7	1618.2	1618.2	1621.3	1632.5	1646.7	1648.3	1648.3
25°	1412.5	1539.1	1566.0	1575.5	1585.0	1589.7	1594.5	1600.8	1605.5	1604.0	1605.5
27.5°	1346.2	1494.8	1529.6	1535.9	1548.6	1553.4	1559.7	1561.2	1562.8	1567.6	1564.4
30°	1271.8	1433.1	1485.3	1491.7	1512.3	1515.3	1509.1	1512.3	1520.1	1523.3	1526.5
32.5°	1187.9	1341.4	1439.4	1453.7	1472.7	1463.2	1461.6	1466.4	1479.0	1479.0	1482.2
35°	1074.1	1270.2	1396.7	1409.4	1423.7	1412.5	1418.9	1420.5	1428.4	1433.1	1431.6
37.5°	949.1	1208.5	1352.4	1362.0	1373.0	1358.8	1368.3	1373.0	1379.3	1376.2	1376.2
40°	838.3	1112.0	1300.3	1306.6	1316.1	1305.0	1314.5	1317.7	1320.8	1317.7	1316.1
42.5°	756.1	1006.0	1244.9	1252.8	1246.4	1254.4	1257.6	1263.9	1259.1	1252.8	1252.8
45°	692.8	977.6	1184.7	1194.3	1184.7	1197.5	1202.2	1202.2	1187.9	1184.7	1183.2
47.5°	672.2	920.6	1124.6	1124.6	1120.0	1135.8	1143.6	1132.6	1118.4	1113.6	1113.6
50°	670.7	857.3	1042.4	1036.1	1058.3	1077.2	1069.3	1058.3	1047.2	1029.8	1029.8
52.5°	609.0	779.8	936.5	960.1	995.0	1006.0	993.4	982.3	963.3	955.5	949.1
55°	564.7	699.2	839.9	887.4	923.8	938.0	914.3	903.2	874.8	870.0	866.8
57.5°	555.2	582.1	751.4	811.5	855.7	854.2	839.9	819.4	795.6	790.9	789.4
60°	509.3	420.8	656.4	727.7	773.5	768.8	756.1	737.1	715.0	711.8	708.7
62.5°	461.9	305.3	548.9	629.5	694.4	692.8	681.8	653.3	637.5	629.5	623.3
65°	392.3	256.3	390.7	523.6	616.9	620.1	596.3	575.8	558.4	548.9	547.3
67.5°	298.9	208.8	264.1	436.6	542.6	539.4	509.3	499.9	477.7	473.0	463.5
70°	221.4	139.2	183.5	354.3	469.8	461.9	438.2	427.1	406.5	395.5	389.1
72.5°	183.5	112.4	134.4	275.3	395.5	385.9	365.4	352.8	335.4	325.8	319.5
75°	148.7	118.6	102.8	204.0	321.1	314.8	295.8	283.1	268.9	256.3	257.8
77.5°	109.2	110.8	82.3	150.3	254.7	245.2	234.1	218.3	212.0	199.3	199.3
80°	82.3	87.0	61.7	102.8	183.5	183.5	174.0	162.9	151.9	145.5	145.5
82.5°	55.3	55.3	45.9	64.9	125.0	120.2	113.8	110.8	104.4	101.2	101.2
85°	25.3	31.6	28.5	39.5	68.0	71.2	71.2	68.0	66.5	63.3	64.9
87.5°	7.9	14.2	17.4	22.2	34.8	36.4	37.9	37.9	37.9	39.5	39.5
90°	2.9	5.2	7.6	8.1	12.8	19.0	22.1	19.6	14.7	11.0	11.0
92.5°	11.6	31.3	50.9	55.9	78.6	108.9	124.0	108.7	78.0	55.1	52.9
95°	27.9	63.9	100.0	109.0	193.5	306.1	362.5	323.4	245.4	186.8	180.2
97.5°	48.1	79.9	111.7	119.6	260.6	448.5	542.4	517.7	468.5	431.5	418.8
100°	63.7	92.5	121.4	128.6	285.0	493.5	597.7	599.5	603.2	605.9	590.8
102.5°	77.1	104.0	130.9	137.6	296.2	507.7	613.4	644.9	707.7	754.8	741.9
105°	99.6	122.4	145.3	151.0	304.5	509.3	611.7	682.1	823.0	928.6	921.7
107.5°	122.8	144.1	165.3	170.7	306.1	486.6	576.9	675.1	871.6	1019.0	1020.7
110°	138.5	157.7	176.9	181.7	303.8	466.5	547.9	657.8	877.4	1042.2	1049.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	153.9	172.2	190.4	195.0	303.9	449.0	521.6	634.0	858.8	1027.4	1038.6
115°	177.0	193.9	210.8	215.0	306.7	428.8	490.0	598.3	814.9	977.3	992.7
117.5°	199.9	215.3	230.6	234.4	312.4	416.2	468.2	566.0	761.4	908.1	925.1
120°	213.3	227.7	242.1	245.7	317.0	412.0	459.5	548.9	727.5	861.4	878.0
122.5°	226.3	240.9	255.4	259.0	323.6	409.8	452.9	533.2	694.1	814.8	831.1
125°	246.3	259.6	272.8	276.1	332.7	408.0	445.7	514.0	650.6	753.1	768.1
127.5°	262.6	275.9	289.3	292.7	341.6	407.0	439.6	498.3	615.6	703.6	716.3
130°	271.3	285.6	300.0	303.7	348.2	407.5	437.3	489.5	593.9	672.2	683.9
132.5°	280.2	294.6	309.0	312.7	353.5	408.0	435.2	481.9	575.5	645.6	656.1
135°	293.5	306.6	319.8	323.0	359.3	407.6	431.7	470.9	549.2	607.9	617.0
137.5°	307.1	320.1	333.1	336.4	368.0	410.1	431.2	464.3	530.4	580.1	587.5
140°	318.5	330.4	342.4	345.4	373.3	410.5	429.1	457.7	514.8	557.7	564.7
142.5°	327.1	338.2	349.2	352.0	377.7	412.0	429.1	454.3	504.5	542.1	548.1
145°	340.4	350.1	359.8	362.2	383.5	412.0	426.2	446.8	487.8	518.7	523.2
147.5°	353.8	363.1	372.6	374.9	392.0	414.8	426.2	442.4	474.7	498.9	502.7
150°	362.5	371.0	379.5	381.6	396.5	416.3	426.2	439.9	467.2	487.6	490.6
152.5°	371.5	377.9	384.4	385.9	399.4	417.3	426.2	437.9	461.2	478.7	480.9
155°	384.8	389.6	394.3	395.5	405.8	419.4	426.2	435.5	454.0	467.9	469.4
157.5°	394.6	399.3	404.0	405.1	412.1	421.6	426.2	433.4	447.8	458.7	459.7
160°	401.3	404.9	408.5	409.4	415.0	422.5	426.2	432.4	444.8	454.1	454.6
162.5°	408.0	410.7	413.4	414.1	418.1	423.5	426.2	431.5	441.8	449.7	450.2
165°	415.2	417.6	420.1	420.7	422.6	425.0	426.2	430.0	437.4	443.1	443.7
167.5°	421.8	423.0	424.2	424.4	426.0	428.1	429.1	431.6	436.5	440.2	440.4
170°	426.2	427.3	428.6	428.8	428.9	429.0	429.1	431.6	436.5	440.2	440.2
172.5°	428.6	428.8	429.0	429.1	429.1	429.1	429.1	431.1	434.9	437.8	437.6
175°	431.7	431.7	431.7	431.7	430.9	429.7	429.1	430.3	432.8	434.6	434.6
177.5°	431.7	431.7	431.7	431.7	431.1	430.2	429.7	430.6	432.6	434.1	433.8
180°	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0
2.5°	1714.7	1710.0	1714.7	1711.5	1713.1	1708.4	1694.2	1689.4	1694.2	1698.9	1698.9
5°	1735.3	1732.1	1735.3	1735.3	1733.7	1730.5	1714.7	1711.5	1714.7	1716.3	1713.1
7.5°	1741.5	1736.9	1741.5	1738.5	1738.5	1735.3	1719.5	1716.3	1717.9	1722.6	1717.9
10°	1741.5	1736.9	1741.5	1740.0	1738.5	1735.3	1719.5	1713.1	1713.1	1717.9	1713.1
12.5°	1733.7	1730.5	1733.7	1730.5	1730.5	1727.3	1711.5	1705.2	1706.8	1708.4	1702.0
15°	1721.0	1716.3	1721.0	1717.9	1719.5	1714.7	1697.3	1691.0	1691.0	1694.2	1683.0
17.5°	1702.0	1695.7	1702.0	1700.4	1698.9	1695.7	1679.9	1673.6	1672.0	1673.6	1665.6
20°	1679.9	1675.2	1679.9	1678.4	1678.4	1672.0	1656.2	1648.3	1648.3	1648.3	1640.3
22.5°	1645.1	1640.3	1645.1	1648.3	1648.3	1646.7	1632.5	1621.3	1618.2	1618.2	1608.7
25°	1605.5	1600.8	1605.5	1605.5	1604.0	1605.5	1600.8	1594.5	1589.7	1585.0	1575.5
27.5°	1567.6	1564.4	1567.6	1564.4	1567.6	1562.8	1561.2	1559.7	1553.4	1548.6	1535.9
30°	1529.6	1526.5	1529.6	1526.5	1523.3	1520.1	1512.3	1509.1	1515.3	1512.3	1491.7
32.5°	1482.2	1479.0	1482.2	1482.2	1479.0	1479.0	1466.4	1461.6	1463.2	1472.7	1453.7
35°	1433.1	1428.4	1433.1	1431.6	1433.1	1428.4	1420.5	1418.9	1412.5	1423.7	1409.4
37.5°	1376.2	1371.4	1376.2	1376.2	1376.2	1379.3	1373.0	1368.3	1358.8	1373.0	1362.0
40°	1317.7	1311.3	1317.7	1316.1	1317.7	1320.8	1317.7	1314.5	1305.0	1316.1	1306.6
42.5°	1251.2	1249.6	1251.2	1252.8	1252.8	1259.1	1263.9	1257.6	1254.4	1246.4	1252.8
45°	1180.1	1176.9	1180.1	1183.2	1184.7	1187.9	1202.2	1202.2	1197.5	1184.7	1194.3
47.5°	1104.1	1096.2	1104.1	1113.6	1113.6	1118.4	1132.6	1143.6	1135.8	1120.0	1124.6
50°	1023.4	1025.0	1023.4	1029.8	1029.8	1047.2	1058.3	1069.3	1077.2	1058.3	1036.1
52.5°	944.3	942.7	944.3	949.1	955.5	963.3	982.3	993.4	1006.0	995.0	960.1
55°	865.3	868.4	865.3	866.8	870.0	874.8	903.2	914.3	938.0	923.8	887.4
57.5°	786.2	781.4	786.2	789.4	790.9	795.6	819.4	839.9	854.2	855.7	811.5
60°	694.4	688.1	694.4	708.7	711.8	715.0	737.1	756.1	768.8	773.5	727.7
62.5°	613.7	602.7	613.7	623.3	629.5	637.5	653.3	681.8	692.8	694.4	629.5
65°	528.3	523.6	528.3	547.3	548.9	558.4	575.8	596.3	620.1	616.9	523.6
67.5°	450.8	450.8	450.8	463.5	473.0	477.7	499.9	509.3	539.4	542.6	436.6
70°	379.7	378.1	379.7	389.1	395.5	406.5	427.1	438.2	461.9	469.8	354.3
72.5°	311.6	310.0	311.6	319.5	325.8	335.4	352.8	365.4	385.9	395.5	275.3
75°	251.5	248.4	251.5	257.8	256.3	268.9	283.1	295.8	314.8	321.1	204.0
77.5°	193.0	193.0	193.0	199.3	199.3	212.0	218.3	234.1	245.2	254.7	150.3
80°	143.9	142.4	143.9	145.5	145.5	151.9	162.9	174.0	183.5	183.5	102.8
82.5°	101.2	98.1	101.2	101.2	101.2	104.4	110.8	113.8	120.2	125.0	64.9
85°	63.3	63.3	63.3	64.9	63.3	66.5	68.0	71.2	71.2	68.0	39.5
87.5°	41.1	39.5	41.1	39.5	39.5	37.9	37.9	37.9	36.4	34.8	22.2
90°	11.0	11.0	11.0	11.0	11.0	14.7	19.6	22.1	19.0	12.8	8.1
92.5°	44.1	35.3	44.1	52.9	55.1	78.0	108.7	124.0	108.9	78.6	55.9
95°	153.8	127.2	153.8	180.2	186.8	245.4	323.4	362.5	306.1	193.5	109.0
97.5°	368.4	317.9	368.4	418.8	431.5	468.5	517.7	542.4	448.5	260.6	119.6
100°	530.7	470.5	530.7	590.8	605.9	603.2	599.5	597.7	493.5	285.0	128.6
102.5°	690.4	638.9	690.4	741.9	754.8	707.7	644.9	613.4	507.7	296.2	137.6
105°	894.0	866.4	894.0	921.7	928.6	823.0	682.1	611.7	509.3	304.5	151.0
107.5°	1027.4	1034.2	1027.4	1020.7	1019.0	871.6	675.1	576.9	486.6	306.1	170.7
110°	1078.3	1107.2	1078.3	1049.4	1042.2	877.4	657.8	547.9	466.5	303.8	181.7



TEST NUMBER: P934935

CATALOG NUMBER: SQ4-FA-075U-125D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1082.9	1127.2	1082.9	1038.6	1027.4	858.8	634.0	521.6	449.0	303.9	195.0
115°	1054.2	1115.6	1054.2	992.7	977.3	814.9	598.3	490.0	428.8	306.7	215.0
117.5°	993.2	1061.4	993.2	925.1	908.1	761.4	566.0	468.2	416.2	312.4	234.4
120°	944.1	1010.3	944.1	878.0	861.4	727.5	548.9	459.5	412.0	317.0	245.7
122.5°	896.4	961.7	896.4	831.1	814.8	694.1	533.2	452.9	409.8	323.6	259.0
125°	828.2	888.3	828.2	768.1	753.1	650.6	514.0	445.7	408.0	332.7	276.1
127.5°	766.9	817.7	766.9	716.3	703.6	615.6	498.3	439.6	407.0	341.6	292.7
130°	730.8	777.7	730.8	683.9	672.2	593.9	489.5	437.3	407.5	348.2	303.7
132.5°	698.0	740.0	698.0	656.1	645.6	575.5	481.9	435.2	408.0	353.5	312.7
135°	653.2	689.3	653.2	617.0	607.9	549.2	470.9	431.7	407.6	359.3	323.0
137.5°	617.1	646.7	617.1	587.5	580.1	530.4	464.3	431.2	410.1	368.0	336.4
140°	592.4	620.1	592.4	564.7	557.7	514.8	457.7	429.1	410.5	373.3	345.4
142.5°	571.9	595.7	571.9	548.1	542.1	504.5	454.3	429.1	412.0	377.7	352.0
145°	541.2	559.2	541.2	523.2	518.7	487.8	446.8	426.2	412.0	383.5	362.2
147.5°	517.6	532.6	517.6	502.7	498.9	474.7	442.4	426.2	414.8	392.0	374.9
150°	502.8	514.9	502.8	490.6	487.6	467.2	439.9	426.2	416.3	396.5	381.6
152.5°	490.1	499.2	490.1	480.9	478.7	461.2	437.9	426.2	417.3	399.4	385.9
155°	475.5	481.6	475.5	469.4	467.9	454.0	435.5	426.2	419.4	405.8	395.5
157.5°	464.0	468.2	464.0	459.7	458.7	447.8	433.4	426.2	421.6	412.1	405.1
160°	457.1	459.5	457.1	454.6	454.1	444.8	432.4	426.2	422.5	415.0	409.4
162.5°	452.6	454.9	452.6	450.2	449.7	441.8	431.5	426.2	423.5	418.1	414.1
165°	446.1	448.6	446.1	443.7	443.1	437.4	430.0	426.2	425.0	422.6	420.7
167.5°	441.5	442.5	441.5	440.4	440.2	436.5	431.6	429.1	428.1	426.0	424.4
170°	440.2	440.2	440.2	440.2	440.2	436.5	431.6	429.1	429.0	428.9	428.8
172.5°	436.7	435.8	436.7	437.6	437.8	434.9	431.1	429.1	429.1	429.1	429.1
175°	434.6	434.6	434.6	434.6	434.6	432.8	430.3	429.1	429.7	430.9	431.7
177.5°	432.8	431.7	432.8	433.8	434.1	432.6	430.6	429.7	430.2	431.1	431.7
180°	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7



TEST NUMBER: P934935

CATALOG NUMBER: SQ4-FA-075U-125D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0
2.5°	1695.7	1686.2	1686.2	1670.4	1664.1	1659.3	1651.4	1627.7	1621.3	1615.1	1624.5
5°	1710.0	1692.6	1679.9	1651.4	1627.7	1618.2	1588.2	1531.2	1493.3	1464.8	1449.0
7.5°	1713.1	1691.0	1667.2	1622.9	1566.0	1540.7	1449.0	1344.6	1316.1	1290.7	1274.9
10°	1710.0	1684.6	1651.4	1585.0	1450.6	1406.3	1314.5	1246.4	1229.0	1224.4	1229.0
12.5°	1698.9	1675.2	1629.3	1518.5	1330.3	1300.3	1246.4	1206.9	1203.8	1211.7	1254.4
15°	1679.9	1657.8	1604.0	1430.0	1263.9	1241.8	1203.8	1189.5	1206.9	1262.3	1390.5
17.5°	1660.9	1635.6	1569.2	1343.0	1213.2	1197.5	1170.5	1199.0	1297.1	1371.4	1414.1
20°	1635.6	1605.5	1529.6	1279.7	1176.9	1162.7	1150.0	1278.1	1352.4	1379.3	1403.1
22.5°	1605.5	1574.0	1475.8	1235.4	1138.9	1127.8	1135.8	1322.4	1352.4	1371.4	1392.0
25°	1566.0	1539.1	1412.5	1200.6	1108.8	1096.2	1126.2	1317.7	1335.0	1339.8	1380.9
27.5°	1529.6	1494.8	1346.2	1168.9	1072.5	1067.7	1134.2	1297.1	1309.7	1314.5	1358.8
30°	1485.3	1433.1	1271.8	1135.8	1034.5	1032.9	1135.8	1271.8	1268.6	1281.3	1325.6
32.5°	1439.4	1341.4	1187.9	1094.6	998.2	996.6	1124.6	1233.8	1230.6	1248.0	1281.3
35°	1396.7	1270.2	1074.1	1047.2	952.3	953.9	1097.8	1189.5	1191.1	1206.9	1227.5
37.5°	1352.4	1208.5	949.1	995.0	908.0	908.0	1061.4	1148.4	1145.2	1150.0	1178.5
40°	1300.3	1112.0	838.3	926.9	866.8	862.1	1017.1	1104.1	1093.0	1091.5	1131.0
42.5°	1244.9	1006.0	756.1	836.7	819.4	813.1	963.3	1050.3	1029.8	1034.5	1085.1
45°	1184.7	977.6	692.8	707.1	770.4	765.6	904.8	988.6	974.4	987.0	1039.3
47.5°	1124.6	920.6	672.2	586.9	718.1	716.5	839.9	928.5	920.6	933.3	988.6
50°	1042.4	857.3	670.7	503.1	659.6	666.0	762.4	870.0	870.0	881.1	939.6
52.5°	936.5	779.8	609.0	455.6	591.6	610.5	694.4	819.4	822.5	833.7	885.8
55°	839.9	699.2	564.7	419.2	510.9	552.0	628.0	767.2	773.5	784.6	832.1
57.5°	751.4	582.1	555.2	376.5	436.6	476.1	569.4	716.5	719.7	729.3	775.1
60°	656.4	420.8	509.3	330.6	371.7	401.7	515.7	656.4	667.6	673.8	713.4
62.5°	548.9	305.3	461.9	298.9	340.0	346.4	471.4	599.5	613.7	618.5	642.2
65°	390.7	256.3	392.3	272.1	306.9	308.5	423.9	541.0	553.6	561.6	579.0
67.5°	264.1	208.8	298.9	246.8	281.5	283.1	378.1	473.0	490.3	496.7	507.7
70°	183.5	139.2	221.4	219.8	253.1	256.3	329.0	411.3	427.1	431.8	438.2
72.5°	134.4	112.4	183.5	197.7	223.0	226.2	278.4	341.6	357.5	362.2	365.4
75°	102.8	118.6	148.7	172.5	189.8	191.4	227.8	278.4	289.5	292.7	294.2
77.5°	82.3	110.8	109.2	139.2	155.0	151.9	178.7	215.2	224.6	224.6	224.6
80°	61.7	87.0	82.3	99.6	113.8	110.8	128.1	153.5	156.6	159.7	158.2
82.5°	45.9	55.3	55.3	63.3	75.9	72.7	85.4	99.6	99.6	99.6	102.8
85°	28.5	31.6	25.3	33.2	42.7	41.1	47.5	53.7	55.3	55.3	52.2
87.5°	17.4	14.2	7.9	12.6	19.0	19.0	22.2	23.7	22.2	22.2	22.2
90°	7.6	5.2	2.9	5.2	7.6	8.1	12.8	19.0	22.1	19.6	14.7
92.5°	50.9	31.3	11.6	31.3	50.9	55.9	78.6	108.9	124.0	108.7	78.0
95°	100.0	63.9	27.9	63.9	100.0	109.0	193.5	306.1	362.5	323.4	245.4
97.5°	111.7	79.9	48.1	79.9	111.7	119.6	260.6	448.5	542.4	517.7	468.5
100°	121.4	92.5	63.7	92.5	121.4	128.6	285.0	493.5	597.7	599.5	603.2
102.5°	130.9	104.0	77.1	104.0	130.9	137.6	296.2	507.7	613.4	644.9	707.7
105°	145.3	122.4	99.6	122.4	145.3	151.0	304.5	509.3	611.7	682.1	823.0
107.5°	165.3	144.1	122.8	144.1	165.3	170.7	306.1	486.6	576.9	675.1	871.6
110°	176.9	157.7	138.5	157.7	176.9	181.7	303.8	466.5	547.9	657.8	877.4



TEST NUMBER: P934935

CATALOG NUMBER: SQ4-FA-075U-125D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	190.4	172.2	153.9	172.2	190.4	195.0	303.9	449.0	521.6	634.0	858.8
115°	210.8	193.9	177.0	193.9	210.8	215.0	306.7	428.8	490.0	598.3	814.9
117.5°	230.6	215.3	199.9	215.3	230.6	234.4	312.4	416.2	468.2	566.0	761.4
120°	242.1	227.7	213.3	227.7	242.1	245.7	317.0	412.0	459.5	548.9	727.5
122.5°	255.4	240.9	226.3	240.9	255.4	259.0	323.6	409.8	452.9	533.2	694.1
125°	272.8	259.6	246.3	259.6	272.8	276.1	332.7	408.0	445.7	514.0	650.6
127.5°	289.3	275.9	262.6	275.9	289.3	292.7	341.6	407.0	439.6	498.3	615.6
130°	300.0	285.6	271.3	285.6	300.0	303.7	348.2	407.5	437.3	489.5	593.9
132.5°	309.0	294.6	280.2	294.6	309.0	312.7	353.5	408.0	435.2	481.9	575.5
135°	319.8	306.6	293.5	306.6	319.8	323.0	359.3	407.6	431.7	470.9	549.2
137.5°	333.1	320.1	307.1	320.1	333.1	336.4	368.0	410.1	431.2	464.3	530.4
140°	342.4	330.4	318.5	330.4	342.4	345.4	373.3	410.5	429.1	457.7	514.8
142.5°	349.2	338.2	327.1	338.2	349.2	352.0	377.7	412.0	429.1	454.3	504.5
145°	359.8	350.1	340.4	350.1	359.8	362.2	383.5	412.0	426.2	446.8	487.8
147.5°	372.6	363.1	353.8	363.1	372.6	374.9	392.0	414.8	426.2	442.4	474.7
150°	379.5	371.0	362.5	371.0	379.5	381.6	396.5	416.3	426.2	439.9	467.2
152.5°	384.4	377.9	371.5	377.9	384.4	385.9	399.4	417.3	426.2	437.9	461.2
155°	394.3	389.6	384.8	389.6	394.3	395.5	405.8	419.4	426.2	435.5	454.0
157.5°	404.0	399.3	394.6	399.3	404.0	405.1	412.1	421.6	426.2	433.4	447.8
160°	408.5	404.9	401.3	404.9	408.5	409.4	415.0	422.5	426.2	432.4	444.8
162.5°	413.4	410.7	408.0	410.7	413.4	414.1	418.1	423.5	426.2	431.5	441.8
165°	420.1	417.6	415.2	417.6	420.1	420.7	422.6	425.0	426.2	430.0	437.4
167.5°	424.2	423.0	421.8	423.0	424.2	424.4	426.0	428.1	429.1	431.6	436.5
170°	428.6	427.3	426.2	427.3	428.6	428.8	428.9	429.0	429.1	431.6	436.5
172.5°	429.0	428.8	428.6	428.8	429.0	429.1	429.1	429.1	429.1	431.1	434.9
175°	431.7	431.7	431.7	431.7	431.7	431.7	430.9	429.7	429.1	430.3	432.8
177.5°	431.7	431.7	431.7	431.7	431.7	431.7	431.1	430.2	429.7	430.6	432.6
180°	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7



TEST NUMBER: P934935

CATALOG NUMBER: SQ4-FA-075U-125D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0
2.5°	1613.5	1608.7	1615.1	1597.6	1615.1	1608.7	1613.5	1624.5	1615.1	1621.3	1627.7
5°	1415.7	1407.9	1382.5	1362.0	1382.5	1407.9	1415.7	1449.0	1464.8	1493.3	1531.2
7.5°	1265.5	1259.1	1252.8	1240.2	1252.8	1259.1	1265.5	1274.9	1290.7	1316.1	1344.6
10°	1232.2	1233.8	1243.3	1241.8	1243.3	1233.8	1232.2	1229.0	1224.4	1229.0	1246.4
12.5°	1317.7	1331.9	1384.1	1380.9	1384.1	1331.9	1317.7	1254.4	1211.7	1203.8	1206.9
15°	1415.7	1420.5	1431.6	1433.1	1431.6	1420.5	1415.7	1390.5	1262.3	1206.9	1189.5
17.5°	1425.2	1426.8	1434.7	1434.7	1434.7	1426.8	1425.2	1414.1	1371.4	1297.1	1199.0
20°	1417.3	1420.5	1436.3	1439.4	1436.3	1420.5	1417.3	1403.1	1379.3	1352.4	1278.1
22.5°	1414.1	1420.5	1433.1	1431.6	1433.1	1420.5	1414.1	1392.0	1371.4	1352.4	1322.4
25°	1398.3	1398.3	1399.9	1401.5	1399.9	1398.3	1398.3	1380.9	1339.8	1335.0	1317.7
27.5°	1365.1	1368.3	1377.8	1376.2	1377.8	1368.3	1365.1	1358.8	1314.5	1309.7	1297.1
30°	1335.0	1331.9	1324.0	1317.7	1324.0	1331.9	1335.0	1325.6	1281.3	1268.6	1271.8
32.5°	1284.5	1276.5	1268.6	1263.9	1268.6	1276.5	1284.5	1281.3	1248.0	1230.6	1233.8
35°	1224.4	1225.9	1224.4	1219.6	1224.4	1225.9	1224.4	1227.5	1206.9	1191.1	1189.5
37.5°	1181.7	1184.7	1183.2	1176.9	1183.2	1184.7	1181.7	1178.5	1150.0	1145.2	1148.4
40°	1137.4	1138.9	1137.4	1132.6	1137.4	1138.9	1137.4	1131.0	1091.5	1093.0	1104.1
42.5°	1094.6	1093.0	1088.3	1085.1	1088.3	1093.0	1094.6	1085.1	1034.5	1029.8	1050.3
45°	1045.6	1047.2	1037.7	1032.9	1037.7	1047.2	1045.6	1039.3	987.0	974.4	988.6
47.5°	996.6	996.6	988.6	983.9	988.6	996.6	996.6	988.6	933.3	920.6	928.5
50°	944.3	942.7	931.7	930.1	931.7	942.7	944.3	939.6	881.1	870.0	870.0
52.5°	884.2	884.2	885.8	889.0	885.8	884.2	884.2	885.8	833.7	822.5	819.4
55°	832.1	833.7	844.7	847.9	844.7	833.7	832.1	832.1	784.6	773.5	767.2
57.5°	778.2	778.2	786.2	786.2	786.2	778.2	778.2	775.1	729.3	719.7	716.5
60°	716.5	719.7	726.1	724.5	726.1	719.7	716.5	713.4	673.8	667.6	656.4
62.5°	651.7	654.9	656.4	653.3	656.4	654.9	651.7	642.2	618.5	613.7	599.5
65°	583.7	586.9	588.4	585.3	588.4	586.9	583.7	579.0	561.6	553.6	541.0
67.5°	514.1	512.5	510.9	517.3	510.9	512.5	514.1	507.7	496.7	490.3	473.0
70°	442.9	442.9	441.4	444.5	441.4	442.9	442.9	438.2	431.8	427.1	411.3
72.5°	367.0	365.4	371.7	367.0	371.7	365.4	367.0	365.4	362.2	357.5	341.6
75°	292.7	295.8	292.7	297.4	292.7	295.8	292.7	294.2	292.7	289.5	278.4
77.5°	223.0	226.2	223.0	223.0	223.0	226.2	223.0	224.6	224.6	224.6	215.2
80°	158.2	156.6	156.6	155.0	156.6	156.6	158.2	158.2	159.7	156.6	153.5
82.5°	101.2	99.6	99.6	102.8	99.6	99.6	101.2	102.8	99.6	99.6	99.6
85°	55.3	56.9	53.7	53.7	53.7	56.9	55.3	52.2	55.3	55.3	53.7
87.5°	20.6	19.0	19.0	19.0	19.0	19.0	20.6	22.2	22.2	22.2	23.7
90°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	14.7	19.6	22.1	19.0
92.5°	55.1	52.9	44.1	35.3	44.1	52.9	55.1	78.0	108.7	124.0	108.9
95°	186.8	180.2	153.8	127.2	153.8	180.2	186.8	245.4	323.4	362.5	306.1
97.5°	431.5	418.8	368.4	317.9	368.4	418.8	431.5	468.5	517.7	542.4	448.5
100°	605.9	590.8	530.7	470.5	530.7	590.8	605.9	603.2	599.5	597.7	493.5
102.5°	754.8	741.9	690.4	638.9	690.4	741.9	754.8	707.7	644.9	613.4	507.7
105°	928.6	921.7	894.0	866.4	894.0	921.7	928.6	823.0	682.1	611.7	509.3
107.5°	1019.0	1020.7	1027.4	1034.2	1027.4	1020.7	1019.0	871.6	675.1	576.9	486.6
110°	1042.2	1049.4	1078.3	1107.2	1078.3	1049.4	1042.2	877.4	657.8	547.9	466.5



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1027.4	1038.6	1082.9	1127.2	1082.9	1038.6	1027.4	858.8	634.0	521.6	449.0
115°	977.3	992.7	1054.2	1115.6	1054.2	992.7	977.3	814.9	598.3	490.0	428.8
117.5°	908.1	925.1	993.2	1061.4	993.2	925.1	908.1	761.4	566.0	468.2	416.2
120°	861.4	878.0	944.1	1010.3	944.1	878.0	861.4	727.5	548.9	459.5	412.0
122.5°	814.8	831.1	896.4	961.7	896.4	831.1	814.8	694.1	533.2	452.9	409.8
125°	753.1	768.1	828.2	888.3	828.2	768.1	753.1	650.6	514.0	445.7	408.0
127.5°	703.6	716.3	766.9	817.7	766.9	716.3	703.6	615.6	498.3	439.6	407.0
130°	672.2	683.9	730.8	777.7	730.8	683.9	672.2	593.9	489.5	437.3	407.5
132.5°	645.6	656.1	698.0	740.0	698.0	656.1	645.6	575.5	481.9	435.2	408.0
135°	607.9	617.0	653.2	689.3	653.2	617.0	607.9	549.2	470.9	431.7	407.6
137.5°	580.1	587.5	617.1	646.7	617.1	587.5	580.1	530.4	464.3	431.2	410.1
140°	557.7	564.7	592.4	620.1	592.4	564.7	557.7	514.8	457.7	429.1	410.5
142.5°	542.1	548.1	571.9	595.7	571.9	548.1	542.1	504.5	454.3	429.1	412.0
145°	518.7	523.2	541.2	559.2	541.2	523.2	518.7	487.8	446.8	426.2	412.0
147.5°	498.9	502.7	517.6	532.6	517.6	502.7	498.9	474.7	442.4	426.2	414.8
150°	487.6	490.6	502.8	514.9	502.8	490.6	487.6	467.2	439.9	426.2	416.3
152.5°	478.7	480.9	490.1	499.2	490.1	480.9	478.7	461.2	437.9	426.2	417.3
155°	467.9	469.4	475.5	481.6	475.5	469.4	467.9	454.0	435.5	426.2	419.4
157.5°	458.7	459.7	464.0	468.2	464.0	459.7	458.7	447.8	433.4	426.2	421.6
160°	454.1	454.6	457.1	459.5	457.1	454.6	454.1	444.8	432.4	426.2	422.5
162.5°	449.7	450.2	452.6	454.9	452.6	450.2	449.7	441.8	431.5	426.2	423.5
165°	443.1	443.7	446.1	448.6	446.1	443.7	443.1	437.4	430.0	426.2	425.0
167.5°	440.2	440.4	441.5	442.5	441.5	440.4	440.2	436.5	431.6	429.1	428.1
170°	440.2	440.2	440.2	440.2	440.2	440.2	440.2	436.5	431.6	429.1	429.0
172.5°	437.8	437.6	436.7	435.8	436.7	437.6	437.8	434.9	431.1	429.1	429.1
175°	434.6	434.6	434.6	434.6	434.6	434.6	434.6	432.8	430.3	429.1	429.7
177.5°	434.1	433.8	432.8	431.7	432.8	433.8	434.1	432.6	430.6	429.7	430.2
180°	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1672.0	1672.0	1672.0	1672.0	1672.0
2.5°	1651.4	1659.3	1664.1	1670.4	1686.2
5°	1588.2	1618.2	1627.7	1651.4	1679.9
7.5°	1449.0	1540.7	1566.0	1622.9	1667.2
10°	1314.5	1406.3	1450.6	1585.0	1651.4
12.5°	1246.4	1300.3	1330.3	1518.5	1629.3
15°	1203.8	1241.8	1263.9	1430.0	1604.0
17.5°	1170.5	1197.5	1213.2	1343.0	1569.2
20°	1150.0	1162.7	1176.9	1279.7	1529.6
22.5°	1135.8	1127.8	1138.9	1235.4	1475.8
25°	1126.2	1096.2	1108.8	1200.6	1412.5
27.5°	1134.2	1067.7	1072.5	1168.9	1346.2
30°	1135.8	1032.9	1034.5	1135.8	1271.8
32.5°	1124.6	996.6	998.2	1094.6	1187.9
35°	1097.8	953.9	952.3	1047.2	1074.1
37.5°	1061.4	908.0	908.0	995.0	949.1
40°	1017.1	862.1	866.8	926.9	838.3
42.5°	963.3	813.1	819.4	836.7	756.1
45°	904.8	765.6	770.4	707.1	692.8
47.5°	839.9	716.5	718.1	586.9	672.2
50°	762.4	666.0	659.6	503.1	670.7
52.5°	694.4	610.5	591.6	455.6	609.0
55°	628.0	552.0	510.9	419.2	564.7
57.5°	569.4	476.1	436.6	376.5	555.2
60°	515.7	401.7	371.7	330.6	509.3
62.5°	471.4	346.4	340.0	298.9	461.9
65°	423.9	308.5	306.9	272.1	392.3
67.5°	378.1	283.1	281.5	246.8	298.9
70°	329.0	256.3	253.1	219.8	221.4
72.5°	278.4	226.2	223.0	197.7	183.5
75°	227.8	191.4	189.8	172.5	148.7
77.5°	178.7	151.9	155.0	139.2	109.2
80°	128.1	110.8	113.8	99.6	82.3
82.5°	85.4	72.7	75.9	63.3	55.3
85°	47.5	41.1	42.7	33.2	25.3
87.5°	22.2	19.0	19.0	12.6	7.9
90°	12.8	8.1	7.6	5.2	2.9
92.5°	78.6	55.9	50.9	31.3	11.6
95°	193.5	109.0	100.0	63.9	27.9
97.5°	260.6	119.6	111.7	79.9	48.1
100°	285.0	128.6	121.4	92.5	63.7
102.5°	296.2	137.6	130.9	104.0	77.1
105°	304.5	151.0	145.3	122.4	99.6
107.5°	306.1	170.7	165.3	144.1	122.8
110°	303.8	181.7	176.9	157.7	138.5



TEST NUMBER: P934935

CATALOG NUMBER: SQ4-FA-075U-125D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	303.9	195.0	190.4	172.2	153.9
115°	306.7	215.0	210.8	193.9	177.0
117.5°	312.4	234.4	230.6	215.3	199.9
120°	317.0	245.7	242.1	227.7	213.3
122.5°	323.6	259.0	255.4	240.9	226.3
125°	332.7	276.1	272.8	259.6	246.3
127.5°	341.6	292.7	289.3	275.9	262.6
130°	348.2	303.7	300.0	285.6	271.3
132.5°	353.5	312.7	309.0	294.6	280.2
135°	359.3	323.0	319.8	306.6	293.5
137.5°	368.0	336.4	333.1	320.1	307.1
140°	373.3	345.4	342.4	330.4	318.5
142.5°	377.7	352.0	349.2	338.2	327.1
145°	383.5	362.2	359.8	350.1	340.4
147.5°	392.0	374.9	372.6	363.1	353.8
150°	396.5	381.6	379.5	371.0	362.5
152.5°	399.4	385.9	384.4	377.9	371.5
155°	405.8	395.5	394.3	389.6	384.8
157.5°	412.1	405.1	404.0	399.3	394.6
160°	415.0	409.4	408.5	404.9	401.3
162.5°	418.1	414.1	413.4	410.7	408.0
165°	422.6	420.7	420.1	417.6	415.2
167.5°	426.0	424.4	424.2	423.0	421.8
170°	428.9	428.8	428.6	427.3	426.2
172.5°	429.1	429.1	429.0	428.8	428.6
175°	430.9	431.7	431.7	431.7	431.7
177.5°	431.1	431.7	431.7	431.7	431.7
180°	431.7	431.7	431.7	431.7	431.7



TEST NUMBER: P934935
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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.26	16.23	16.12	17.11	18.21	18.06	19.02	18.91	19.90	21.01
	3H	15.74	16.61	16.62	17.50	18.64	19.40	20.27	20.27	21.16	22.29
	4H	15.94	16.76	16.83	17.66	18.80	19.84	20.66	20.73	21.56	22.70
	6H	16.07	16.82	16.96	17.72	18.88	20.13	20.88	21.02	21.78	22.94
	8H	16.07	16.79	16.98	17.71	18.87	20.20	20.92	21.11	21.84	23.00
	12H	16.04	16.73	16.96	17.64	18.83	20.24	20.92	21.15	21.84	23.02
4H	2H	16.30	17.12	17.19	18.01	19.16	18.48	19.30	19.37	20.20	21.34
	3H	17.33	18.02	18.24	18.94	20.10	19.99	20.67	20.89	21.60	22.76
	4H	17.61	18.24	18.53	19.16	20.35	20.51	21.13	21.43	22.06	23.24
	6H	17.75	18.28	18.67	19.23	20.42	20.88	21.41	21.80	22.36	23.55
	8H	17.75	18.26	18.69	19.20	20.40	20.98	21.48	21.91	22.42	23.62
	12H	17.73	18.18	18.68	19.14	20.34	21.04	21.49	21.99	22.45	23.65
8H	4H	18.07	18.57	19.00	19.51	20.71	20.65	21.15	21.58	22.09	23.29
	6H	18.34	18.75	19.29	19.73	20.93	21.08	21.49	22.04	22.48	23.68
	8H	18.38	18.75	19.35	19.72	20.94	21.23	21.59	22.19	22.57	23.78
	12H	18.37	18.69	19.34	19.66	20.92	21.32	21.65	22.29	22.61	23.88
12H	4H	18.08	18.53	19.03	19.49	20.70	20.62	21.07	21.57	22.03	23.23
	6H	18.40	18.76	19.36	19.74	20.95	21.08	21.44	22.04	22.42	23.63
	8H	18.47	18.79	19.44	19.76	21.02	21.24	21.56	22.21	22.53	23.79